1/2 022 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--COMPARATIVE SEROLOGICAL CHARACTERISTICS OF ANTIHEPATUCYTUTOXIC SERA
OBTAINED BY MEANS OF IMMUNIZATION OF ANIMALS WITH ISOLATED MITOCHONDRIA
AUTHOR-(03)-SPASUKUKOTSKIY, YU.O., ALEKSEEVA, I.M., GALENKO, T.I.

COUNTRY OF INFO--USSR

SOURCE--FIZIOLOGICHNIY ZHURNAL, 1970, VOL 16, NR 3, PP 341-344

DATE PUBLISHED---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--RABBIT, IMMUNOLOGY, LIVER, MITOCHONDRION, ANTIGEN, PROTEIN, IMMUNE SERUM

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1994/1137

STEP NO--UR/0238/70/016/003/0341/0344

CIRC ACCESSION NO--APOII5156

UNCLASSIFIED

A TO DESCRIPTION OF THE PROPERTY OF THE PROPER

PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 022 CIRC ACCESSION NO--APOII5156 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE DATA ARE CITED ON THE COMPARATIVE SEROLOGICAL CHARACTERISTIC (ACCORDING TO THE COMPLEMENT FIXATION TESTS OF HEPATOCYTOTOXIC SERA OBTAINED BY HEARS OF RABBIT IMMUNIZATION WITH ISOLATED MITOCHONDRIA OF THE LIVER CELLS AND EXTRACTS OF THE WHOLE LIVER TISSUE UNDER STRICTLY ANALOGOUS CONDITIONS BY SIMILAR QUANTITIES OF ANTIGEN ACCORDING TO PROTEIN. IT IS SHOWN, THAT ANTIHEPATOCYTOTOXIC SERUM OBTAINED BY MEANS OF IMMUNIZATION WITH ISOLATED MITOCHONDRIA OF THE LIVER CELLS IS LESS ORGANOSPECIFIC. THAN THE SERUM OBTAINED BY IMMUNIZATION INTH THE EXTRACT OF THE WHOLE LIVER TISSUE AND ACCORDING TO IMMUNOLOGICAL ACTIVITY IN THE TEST OF COMPLEMENT FIXATION WITH HUMOGENATE OF THE LIVER IT DOES NOT ESSENTIALLY DIFFER FACILITY: DEPARTMENT OF EXPERIMENTAL FROM THE LATTER. THERAPEUTICS, THE A. A. BOGOMOLETZ INSTITUTE OF PHYSIOLOGY, ACADEMY OF SCIENCES, UKRAINIAN SSR.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

USSR UDC 632.951

GALETENKO, S. M., and OPANASENKO, G. S., Nikitskiy State Botanical Garden

"Systematic Control by Means of Chemical Agents of the Mite Tetranychus vienensis Zacher in Crimean Orchards"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 9, No 5, 1971, pp 26-28

Abstract: The mite Tetranychus vienensis is one of the most noxious pests damaging fruit crops in the Crimea. Organophosphorus compounds are effective in the control of fruit mites, but cannot be applied constantly and for a long time, because resistance to this and analogous compounds develops. It was established in tests conducted in apple orchards that the acaricides neoron, galecron, chloroethanol, milbex, acrex, acar-50, acar-338, "acaricide," and decachlor can be used to advantage instead of organophosphorus acaricides in controlling T. vienensis. The most effective acaricides of those tested were neoron and galecron, followed by milbex and, in the third place, by chloroethanol. The optimum time for the first spraying of apple trees with an acaricide in the Crimea is in the pink bud phenophase. The second spraying should be carried out at the time when the average number of adult mites amounts to 0.2-0.3 per leaf. This is followed by a number of sprayings that varies depending on the activity of the acaricide. If phthalophos, dipterex, 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

GALETENKO, S. M., and OPANASENKO, G. S., Khimiya v Sel'skom Khozyaystve, Vol 9, No 5, 1971, pp 26-28

or metathion has been used instead of DDT or sevin for the control of the codling moth, the necessity for using an acaricide may substantially decrease.

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URGAIT PROBLESS or POPULATION Directicle by Cimilitate of Economic Science, R. A. Galectalage Joseph Witting Admiral Heart Solds, Australia, Vol. 47, 70-4, April 1972, pp 121-122] Conference in Northly the principal problem of the night five-year plan . . a considerable servettem of the neserial and cultural atomated of living of the population. Capability regard in the given of the Accio-economic problem for the control of the Company of the Accio-economic problem for the population for the Solds of Consephile policy, population for exerting, and the forestopen for the first of the Solds of Consephile policy, population for exerting, and the forestopen for the first of the Solds of

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UDC 619.9-092.9

GALETSKIY, P. K., Chair of Microbiology, Kishinev Medical Institute and Department of Infectious Pathology and Experimental Therapy of Infections, Institute of Epidemiology and Microbiology imeni N. F. Gomaleya

"Experimental Infection Caused by Staphylococci Resistant to Antibodies"

Kishinev, Zdravookhraneniye, No 2, Mar/Apr 70, pp 29-31

Abstract: Mice were injected intraperitoneally with similar doses of pathogenic strains of Staphylococci sensitive to penicillin and resistant to penicillin, and also with strains resistant to antibiotics. Every five days a few animals were sacrificed for study. Animals infected with resistant strains showed definite macroscopic changes, whereas those infected with sensitive strains and treated were almost free of infection by that time. Infection with resistant strains involved the lungs, liver, kidney, spleen and lymph glands, in that given. Maximum dissemination of penicillin resistant strains with production of suppurative loci occurred in 65 days, 1/2

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GALETSKIY, P. K., et al., Kishinev, Zdravookhraneniye, No 2, Mar/Apr 70, pp 29-31

and with antibiotic resistant strains, in 120-140 days. Resistant strains produced artificially were not as severe as those obtained from patients, which were more difficult to eradicate. In cases of natural immunity, the bacteria disappeared first from the lungs, then from the liver, spleen, kidney and finally from the lymphatics.

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- 19 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

LOMINADZE, D. G., PATARAYA, A. D., SAGDEYEV, R. Z., and STEPANOV, K. N., Institute of High-Temperature Physics of the Academy of Sciences USSR

"Anomalous Resistance of Plasma Due to Instability at Cyclotron Harmonics"

Moscow, Pis'ma v Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 15, No 7, 5 Apr 72, pp 417-420

Abstract: An expression for the anomalous resistance arising due to buildup of Bernstein modes is obtained and the nonlinear mechanism leading to saturation of the growth of oscillations is explained. It is noted that high anomalous resistance of plasma observed in many experiments is associated with the appearance of ion-sound instability; but that ion-sound instability can arise only for sufficiently strong nonisothermality $\mathbf{T_c} \geqslant \mathbf{T_i}$, and the anomalous resistance occurs when this condition is not fulfilled. It is observed that instability in electron cyclotron oscillations (Bernstein modes) has recently been discussed in connection with the problem of anomalous resistance; Bernstein modes are oscillations with the wave vector strictly or almost strictly perpendicular to the magnetic field and with frequencies of the order $\eta\omega_{\mathrm{he}}$. As distinct from ion-sound, this instability

CALEYEV, A. A., et al., Pis'ma v Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 15, No 7, 5 Apr 72, pp 417-420

develops from $\mathtt{T_i} \geq \mathtt{T_e}.$ An expression is obtained for ν_{eff} , the frequency of the oscillations at which electrons are scattered. The magnitude of ν_{eff} is small due to the "Pitayevskiy factor" $\kappa^2 \rho^2.$ The resistance given by this expression is much less than the resistance due to ion-sound instability. It is stated that when electron-sound instability due to smallness of the increment of rise cannot develop and goes into a nonlinear mode such as in collisionless shock waves, this anomalous resistance in Bernstein modes will play the major role.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

USSR

UDC 547.341

GALEYEV, V. S., and LEVIN, YA. A.

" $oldsymbol{eta}$ -Chloroethyl and Some Unsaturated Derivatives of $oldsymbol{eta}$ -Styrylphosphonic, -thiophosphonic, and -phosphonous Acids"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 8, 1972, pp 1714-1720

Abstract: Syntheses are described for the title compounds based on the monostyrylation of PCl₅. Ten compounds were prepared having the general formula

for 1R and R' representing such groups as $OC_2^{H_5}$, $OCH=CH_4$, $CH_2CH=CH_2$, OCH_2CH_2CI , and CH_2CH_2CI , CH_2CH_2CI , where R represents $OCH_2CH=CH_2$, and OCH_2CH_2CI and $OCH_2CH=CH_2$, where R represents $OCH_2CH=CH_2$, and $OCH_2CH=CI$ and OCH_2CI and $OCH_$

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

WC 547.341

GALEYEV. V. S., and LEVIN, YA. A.

"Some Conversions of Products of Di- and Tristyrylation of Phosphorus Pentachloride"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 7, Jul 72, pp 1496-1499

Abstract: The action of methyl dichlorophosphito on di- \(\beta \) -styryltrichlorophosphorus and its hydrochloride was studied, and it was found that the principal product of the reaction is di- \(\beta \) -styrylphosphinic acid chloride, rather than di \(\beta \) -styrylchlorophosphine. In the case of the hydrochloride, small quantities of monostyryl derivatives of phosphorus -- \(\beta \) -styryldichlorophosphine and its oxide -- are formed as well as the principal reaction product. Di- \(\beta \) -styrylchlorophosphine was synthesized by disproportionation of \(\beta \) -styryldichlorophosphine at 240-250°C.

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- 27 -

Free Radicals

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UDC 541.13+541.515+542.941+661.718.1

IL'YASOV, A. V., KARGIN, Yu. M., LEVIN, Ya. A., MOROZOVA, I. D., MEL'NIKOV, B. V., VARINA, A. A., SOTNIKOVA, N. N., and GALEYEV, W. S., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, USSR Acad. of Sciences

"Electrochemically Generated Free Radicals. 6. The Reduction Mechanism of Certain Organophosphorus Compounds, and the Electron Paramagnetic Resonance Spectra of the Anion Radicals Formed"

Moscow, Izvestiya Akademii Nauk SSR, Seriya Khimicheskaya, No 4, 71, pp 770-776

Abstract: A series of organophosphorus compounds was studied in connection with their electrochemical reduction, using several methods. The electron paramagnetic method was applied in the case of electrochemically generated anion radicals of triphenylphosphine, its oxides, and the diethyl ester of β -styrylphosphosphonic acid.

Graphical data accompanying the paper include classical and commutated polarograms for the various compounds, and electron paramagnetic spectra for free radicals; numerical electrochemical data are given for nine organophosphorus compounds tested.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

1/2 014 UNCLASSIFIED PROCESSING DATE--230CT70 TITLE--SEPARATION OF A CONCENTRATE OF ORGANOSULFUR COMPOUNDS BY AN

ADSORPTION METHOD -U-

AUTHOR-1041-OBOLENTSEV, R.D., LVAPINA, N.K., GALEYEVA, G.V., GAZEYEVA, V.N.

COUNTRY OF INFO--USSR

SOURCE--NEFTEKHIMIYA 1970, 10(1), 110-15

DATE PUBLISHED---- 70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS--DISTILLATION, ORGANOSULFUR COMPOUND, KERSOSENE, CHEMICAL SEPARATION, POLYETHYLENE, ORGANOSILICON COMPOUND, PETROLEUM FRACTION, SULFIDE, THIOPHENE, HYDROCARBON, CHROMATOGRAPHIC SEPARATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED

PROXY REEL/FRAME - 1997/0564 09/17/2001 NO-CIA-RDP86-00513R002200830002-4"

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regerment was recommended in the control of the con

2/2 014 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--APO119482 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A COMBINATION OF RECTIFICATION AND ADSURPTION CHROMATOG. WAS USED FOR SEPN. OF CONCS. CONTG. ORG. S COMPOS. THESE CONCS. HERE OBTAINED BY EXIN. OF THE KEROSINE FRACTION (150-250DEGREES) OF ARLAN NAPHTHA WITH H SUB2 SO SUB4. THE RECTIFICATION WAS CARRIED OUT UNDER REDUCED PRESSURE IN STAINLESS STEEL AND GLASS APP. A COLUMN OF 290 TIMES 8.8 CM SIZE WITH 34 THEORETICAL PLATES AND 4 TIMES 5 MM LEVIN FILLING WAS USED. A 30 1. CONTAINER WAS HEATED WITH POLY (PHENYLMETHYLSILOXANE) LIQ. NO. 4 TO 200DEGREES. THE RECTIFICATION RATE WAS 200-50 ML-HR AND THE REFLUX RATIO 20-5:1. FIFTEEN STRIPPINGS (10DEGREES FRACTIONS) WERE TAKEN AND FURTHER SEPD. CHROMATOG. ON POLYETHYLENE COLUMNS PACKED WITH SILICA GEL (30-50 MESH: HEATED 1ST FOR 6 HR TO 70-100DEGREES AND THEN FOR 30 HR TO 150-70DEGREES). TWO COLUMNS WERE USED: (A) 12 M TIMES 35 MM PACKED WITH 12 1 ADSORBENT WITH 1.2-KG FRACTIONS AND 8 1. ME SUB2 CO ADDED WITH 0.5 HR.; AND (B) 12 M TIMES 18 MM PACKED WITH 3 1. ADSORBENT WITH 0.3-KG FRACTIONS AND 3 L. ME SUB2 CO WERE USED THE ME SUB2 CO BEING EXPELLED WITH H SUB2 O. FRACTIONS B. LESS THAN 2000EGREES NEED 1-2 CHROMATOGRAPHIC SEPNS .: HIGHER FRACTIONS REQUIRE SEVERAL REPETITIONS OF THE PROCESS. THE CONDD. SAMPLES WERE SEPD. INTO SULFIDE, THIOPHENE, AND HYDROCARBON FRACTIONS OF MOL. WT. 140-205. FACILITY: INST. ORG. KHIM., UFA, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

ШС 539.143.43+661.718.1

ISHMAYEVA, E. A., ZIMIN, M. G., GALEYEVA, R. W., and PUDOVIK, A. N., Kazan State University imeni V. I. Ul'Yanco-Lenin, Kazan

"The Dipole Moments of Organophosphorus Compounds. II. Benzoylphosphonates, Benzoylphosphinates, and Benzoylphosphine Oxides"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 3, Mar 71, PP 538-543

Abstract: The diethyl esters of benzoylphosphonic acids X-C6H4COP(0)(OEt)2 (I) with X = p-Cl, M-Cl, H-Br, P-NO₂ (b 0 150° at 2 mm, 146° at 2 mm, 164° at 2 mm; and b? 145° at 1 mm, m.p. 51.5°, respectively) and diethyl(diphenyl) benzoylphosphine oxides FhCOP(0)R2 (II) with R = Et, Ph (bp 155-60 at 6 mm and 167-8° at 1.5 mm, respectively) were prepared. Compounds I were obtained by the reaction of X-C6H4COC1 with triethyl phosphite and compounds II by reacting diethyl- or diphenylphosphinous acid HP(0)R2 with Phcocl. The dipole moments of compounds I and II were determined experimentally and the spatial structure of these compounds was elucidated from the data obtained, that of ethyl esters of ethyl- and phenylbenzoylphosphinic acids from 1/2

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APPROVED FOR RELEASE: 09/17/2001

USSR

ISHMAYEVA, E. A., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 3, Mar 71, pp 538-543

available experimental data. Differences between the experimentally determined and calculated values of the dipole moments of I indicated an interaction between X and the -P(O)(OEt)₂ group.

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1/2 016 UNCLASSIFIED PROCESSING DATE--090CT70 TITLE--SUBSTANTIATION OF THE MAXIMAL PERMISSIBLE CONCENTRATIONS OF AMMONIUM DIURANATE IN THE AIR OF INDUSTRIAL -U-AUTHOR-(021-GALIBIN, G.P., VLASOV, P.A. PER BUSINESS COUNTRY OF INFO-USSR SOURCE-GIGIYENA I SANITARIYA, 1970, NR 5, PP 26-32 DATE PUBLISHED ---- 70 SUBJECT AREAS -- MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--AIR POLLUTION, AMMONIUM COMPOUND, TOXICITY, URANIUM CONTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--1992/1645 STEP NO--UR/0240/70/000/005/0026/0032 CIRC ACCESSION NO--APO112639

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UNCLASSIFIED

2/2 016 UNCLASSIFIED PROCESSING DATE--090CT70 CIRC ACCESSION NU--APO112639 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IN A CHRONIC TEST CARRIED OUT ON RATS INHALATION OF AMMONIUM DIURANATE AT A CONCENTRATION OF 8 MG-M PRIMES FOR FOUR HOURS DAILY FOR A PERIOD OF 4 MONTHS PROVED TO BE DEFINITELY TUXIC. THE CONCENTRATION OF THIS COMPOUND AMOUNTING TO 1 MG-M PRIMES APPROACHED THE MINIMUM EFFECTIVE LEVEL OBTAINED IN THE CHRONIC INHALATION TEST. THE PAPER PRESENTS DATA OF CLINICAL BIUCHEMICAL AND PATHALOGOANATOMICAL INVESTIGATIONS AND THE AMOUNT OF SUBSTANCE ABSORBED BY SUCH TISSUES AS THE SKELETON, THE LUNGS, THE LIVER AND THE KIDNEYS. ON THE BASIS OF THE EXPERIMENTAL DATA OBTAINED THE MAXIMUM PERMISSIBLE CONCENTRATION OF AMMONIUM DIURANATE IN THE AIR OF INDUSTRIAL PREMISES IS RECOMMENDED TO BE SET AT A LEVEL OF O.1 MG-M PRIMES OF URANIUM 17 TIME 10 PRIME NEGATIVE14 CURIE-L FOR NATURAL URANIUM).

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UNCLASSIFIED

1/2 008 UNCLASSIFIED PROCESSING DATE--11SEP70
TITLE--ON THE METHOD OF CHEMICAL ANALYSIS OF SILICATES -U-

AUTHOR-GALIBIN, V.A., POTOTSKAYA, V.

COUNTRY OF INFO--USSR

SOURCE--VESTNIK LENINGRADSKOGO UNIVERSITETA, NO 6, GEOLOGIYA, GEOGRAFIYA, 1970, NR 1, PP 160-163
DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS -- SILICATE, SPECTROMETRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1275

STEP 40--UR/0307/70/000/001/0160/0163

CIRC ACCESSION NO--APO106056

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UNCLASSIFIED

PROCESSING DATE--11SEP70

CIRC ACCESSION NO--APO106056

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE ARTICLE IS DEVOTED TO THE ANALYSIS OF SILIDATE ROCKS AND MINERALS BY A COMBINED CHEMICAL SPECTROCHEMICAL AND FLAME SPECTROMETRIC METHOD. SID SUB2, FEC, H SUB2 D PLUS, H SUB2 D MINUS, P SUB2 D SUB5 ARE ANALYSED BY THE RAPID CHEMICAL METHOD. AL SUB2 O SUB3, FE SUB2 O SUB3 (TOTAL), TID SUB2, MNO, MGD, CAD ARE DETERMINATED BY THE SPECTROCHEMICAL METHOD. NA SUB2 O, K SUB2 O, LI SUB2 O, RB SUB2 O, CS SUB2 O ARE ANALYSED BY THE FLAME SPECTROMETRIC METHOD. THE CHEMICAL AND SPECTROCHEMICAL ANALYSIS ACCURACY IS COMPARED.

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UR 0482

Soviet Inventions Illustrated, Section III Mechanical and General, Derwent, 2-70

243166 WALL SUPPORT FOR MAST HOIST comprising rod connected to the mast and resting on the building wall, and clamps, differing in having a flexible tie passed through a system of pulleys mounted on the rod and clamps, connected to a tensing device, and fixed on it -in the working position by a clamping plate. This simplifies assembly -of the support, and its design. In the process of assembly the clamps are first attached to the wall through apertures. They can be set up independently of the rest of the support, since they can be readily detached from it by taking tie 13 off diverting pulleys 11 and 12. Rod 1 is then fixed first by some temporary method to the must so that it can move along its axis. After the flexible tie has been threaded by rotating bushnut 5, the assembler tightens it. The tie with its tensed branches is fixed by clamping plate 19.

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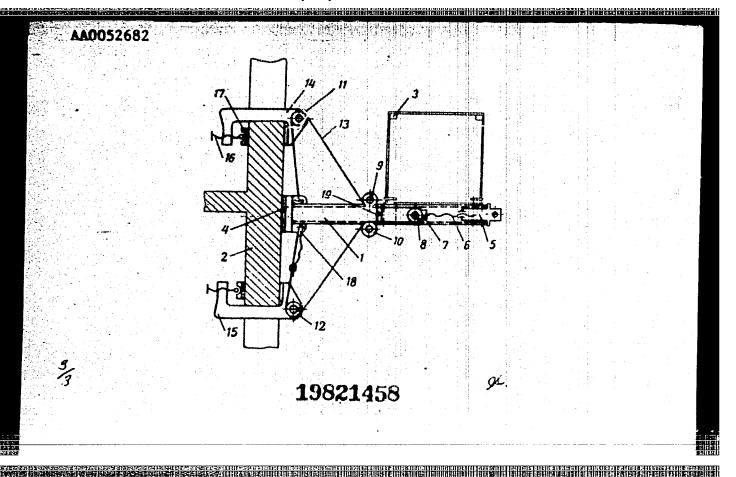
This prevents the flexible tie running along the pulleys in the working position. The tension in the branches remains constant, and red 1 is unable

to move in the plane perpendicular to the axis of the mast. After tensing the tie, the rod is finally fixed to the mast. 17.1.68. as 1210039/27-11, GALICHERRO, A.N. et al Inst. For Building and Roadmaking Engineering. (22.9.69) Bul. 16/5.5.69. Class 35d, Int. Cl. B 66b.

Galichenko, A. N.; Mos'kin, A. N.; Feoktistov, G. N.; Gekht, A. Kh. Usesoyuznyy Nauchno-Issledovatel'skiy Institut Stroitel'nogo i Dorozhnogo Mashinostroyeniya

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19821457



PROCESSING DATE-- 20NOV70 TITLE-MURBIDITY AND MORTALITY OF MYOCARDIAL INFARCTION IN KHAR KOV IN THE 1961-1967 PERIOD -U-AUTHUR-1021-GUREVICH, Z.A., GALICHEVA, N.A. D. CHAR CCUNTRY OF INFO-USSR SOURCE-MGSCOW, SOVETSKOYE ZDRAVOOKHRANENIYE, RUSSIAN, NO 3, 1970, PP 17-21 DATE PUBLISHED -----70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--MYOCARDIUM, PUBLIC HEALTH, DIAGNOSTIC METHODS, MEDICAL FACILITY MURTALITY RATE CENTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0753/70/000/003/0017/0021 PROXY REEL/FRAME-3005/0675 CIRC ACCESSION NO--AP0132797 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

2/3 029 UNCLASSIFIED PROCESSING DATE--20NOV70 CIRC ACCESSION NO--APO132797 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. SUCCESS ACHIEVED IN RECENT YEARS IN TREATING PATIENTS WITH MYOCARDIAL INFARCTION HAS UNDOUBTEDLY HAD AN INFLUENCE ON THE DEFINITE STABILITY IN THE INDICES OF MORTALITY OF MYOCARDIAL INFARCTION IN KHAR'KOV IN THE 1961-1967 PERIOD. (1966) WEST GERMANY) WRITES, AT THE PRESENT TIME THE CHANCES THAT A MAN WHO HAS CONTRACTED MYUCARDIAL INFARCTION WILL RECOVER AND RETURN TO USEFUL ACTIVITY HAS INCREASED THREEFOLD OVER WHAT WAS UBSERVED 30 YEARS AGU: --IT-IS ALSO BEYOND DISPUTE THAT BY SYSTEMATICALLY STUDYING THE MURBIDITY AND MORTALITY RATES OF MYOCARDIAL INFARCTION IN KHAR!KOV YEAR AFTER YEAR. WE HAVE IMPROVED THE METHOD OF GATHERING MATERIAL. AND TO A CERTAIN EXTENT THIS HAS HELPED TO MAKE RECORDS MORE COMPLETE. RECORDS ON PATIENTS WITH MYCCARDIAL INFARCTION IN KHAR KOV: WHICH HAVE IMPROVED YEAR AFTER YEAR, HAVE ALSO ENSURED MORE KNOWLEDGE ON THE PART OF PHYSICIANS OF THE CLINICAL ASPECTS OF THIS ILLNESS AND EXPANDED OPPORTUNITIES FOR RUNNING EKG, BIOCHEMICAL BAND OTHER TESTS ON PATIENTS AND THE PUBLIC. AND THIS HAS HELPED TO INCREASE THE QUALITY OF DIAGNOSIS. HOSPITALIZATION OF PATIENTS WITH MYUCARDIAL INFARCTION HAS THEREFORE BEEN EARLIER AND MORE FREQUENT DO THIS FACT HAS ALSO BEEN FAVORED:BY THE INCREASE IN KHAR*KOV(OF)ESTABLISHMENTS SPECIALIZING IN SERVICE TO PATIENTS WITH MYUCARDIAL INFARCTION (THE CITYCITY CARDIGRHEUMATOLOGY DISPENSARY WITH INFIRMARY, THE SPECIALIZED INFARCTION DEPARTMENT OF HOSPITAL NO 27, SPECIALIZED EMERGENCY MEDICAL AID FOR PATIENTS WITH MYUCARDIAL INFARCTION, ETC.).

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3/3 029	UNCLASSIF	IE0	PRUCESSI	NG DATE201	10 V 7 C
CIRC ACCESSION NOAPOLE ABSTRACT/EXTRACTFACILI ORGANIZATION, HEAD, PRO	TY: CHAIR OF	SOCIAL HYGI GUREVICH, O	ENE AND P	UBLIC HEALTH V MEDICAL	•
INSTITUTE.					
	UNCLASSIFIED				

DC 591,1

SHIPOV, A. A., GALTCHIY, V. A., and EPSHTEYN, Ye. L., Institute of Biomedical Problems, Ministry of Health USSR

"Changes in the Speed of the Process of Vestionlar Compensation as a Function of the Position of the Head"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 5, 1970, pp 673-678

Abstract: The effects of head position on the rate of compensation after impairment of vector that function were studied in rabbits by means of unilateral laby-rinthectomy. The dynamics of the compensatory process was assessed from the resulting nystagmus. Nystagmus is one of the first symptoms to appear in unilaterally labyrinthectomized rabbits; it is clear-cut, lasts leveral days, and can be described quantitatively. Following destruction of a labyrinth, nystagmus directed toward the intact side appeared. The average number of nystagmic movements in experimental animals with the head forcibly maintained in a horizontal position was 54.445.5, as compared to 5913.6 in controls. After 24 hours, the movements decreased to 34.645.5 and 17.543.4, respectively, i.e., they were 34.5 and 725 below the initial level. The compensatory process was thus significantly slower in the samuals whose heads were kept on a horizontal plane, a fact which is 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

USSR
SHPOV, A. A., et al, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 5, 1970. pp 673-678
ascribed chiefly to the characteristic redistribution of proprioceptive impulses from the neck muscles to the vestibular nuclei.

UNCLASSIFIED 1/2 023 TITLE—CUANTITATIVE DESCRIPTION OF THE DY PROCESS IN THE CENTRAL NERVOUS SYSTEM— AUTHOR—(02)—GALICHIY, V.A., SHIPOV, A.A.	NAMICS OF THE COMPENSATORY	
COUNTRY OF INFO-USSR		
SOURCE—IZVESTIYA AKADEMII NAUK SSSR, SER TEPP 114-119 DATE PUBLISHED70	IYA BIOLOGICHESKAYA, 1970, NR 1,	
SUBJECT AREASBIOLOGICAL AND MEDICAL SCI	ENCES	
TOPIC TAGSMYSTAGMUS, CENTRAL NERVOUS SY	STEM, RABBIT, VESTIBULAR FUNCTION	
CENTROL MARKING-NO RESTRICTIONS		
DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME3005/0382 STEP NO	UR/0216/70/000/001/0114/0119	
CIRC ACCESSION NO-APO132611 UNCLASSIFIED		
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CIRC ACCESSION NOAPO132611 ABSTRACT/EXTRACT(U) GP-O- SPONTANEOUS NYSTAGMUS WHICH A COMPENSATORY PROCESS IN I UNILATERALLY DELABYRINTHED	UNCLASSIFIED PROCESSING DATE—ZONOV70 ABSTRACT. THE DYNAMICS OF THE VARIATION OF H SERVED AS A CRITERION FOR THE EVALUATION OF THE CENTRAL NERVOUS SYSTEM WAS STUDIED IN RABBITS. IT WAS ESTABLISHED THAT THE CUMPENSATORY PROCESS IN EXPRESSED BY AN CHAPTER OF A DESTROYED BASIC RECOVERY MECHANISMS OF A DESTROYED	
EXPONENTIAL FUNCTION. THE VESTIBULAR FUNCTION ARE DISMEDICG-BIGLCGICAL PROBLEMS	FACILITYE INSTITUTE OF	
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UDC 632.95

PARSHUTIN, S. M., STONOV, L. D., ZABALUYEY, I. T., BATYROVA, K. SH., GALIFANOV, G. G., MULLIYEV, K. M., PAVLOVA, G. M., SHOSAM, S. M., KINGIPRO, T. V., KUR YANOV, V. A., and KHRIPKO, V. G.

"Control of Overgrouth of Sewers and Drains in Turkmeniya"

V sb. Khim. sredstva zashchity rast. (Chemical Plant Protectants -- collection of works), vyp 1, Mescow, 1970, pp 225-241 (from M2h-Rhimiya, No 13, 10 Jul 72, Abstract No 138533 by T. A. Helyayeva)

Translation: The article compares the effectiveness and profitability of mechanical, manual, thermal biological and chanical methods of removing vegetation from drains. Data are given on results of herbicide tests and applications. To kill reeds, cattails and other weeds in severs during the second and subsequent years of service, dalapon shows the greatest promise in doses of 24-30 kg/ha with the addition of wetting agent CP-7 or CP-10.

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UDC 519.21

GALIGUZOV, A.S.

"Extrapolation of One Type of Unstable Random Process and the Applicability of the Ergodic Theorem"

Sovrem. Probl. Kibernet. [Modern Problems of Cybernetics -- Collection of Works], Moscow, Nauka Press, 1970, pp 15-25, (Translated from Referativny) Zhurnal, Kibernetika, No 6, 1971, Abstract No 6 V122 by V. Makovskiy)

Translation: The extrapolation of unstable random processes $\xi(t)$, the nth increments of which are stable or near stable, is studied. The methods of the spectral theory, applicable to stable processes, allow the best approximation (in the sense of the mean square criterion) of the nth increment $\Delta^{(n)}_{\tau}\xi(t+s)$, s>0, t>0,

to be found by the structural function

$$D(t,\tau_1,\tau_2) = E\left\{\Delta_{\tau_1}^{(n)} \xi(s+t) \Delta_{\tau_1}^{(n)} \xi(s)\right\}.$$

The basic problem consists in applying the ergodic theory to the structural function D (t, τ_1 , τ_2) of the nth stable increments of the unstable process. It is

established in this work that:

$$\overline{\Delta_{(n)}^{\tau}}_{\pm}(t)$$

to converge to

then in order for $E\left\{\Lambda_{1}^{(n)}\xi\left(t\right)\right\}=0,$ 1) If zero on the average, it is necessary and sufficient that

$$\frac{1}{m}\sum_{t=1}^{m-1}D(t,\tau,\tau)$$

converge to zero.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R002200830002-4"

UDC 519.21

GALIGUZOV, A. S., Sovrem. Probl. Kibernet., Moscow, Nauka Press, 1970, pp 15-25.

 $\eta_{\tau_1\tau_2 t}^{(n)}(s) = \Delta_{\tau_1}^{(n)} \xi\left(s+t\right) \Delta_{\tau_1}^{(n)} \xi\left(s\right) \qquad \text{is stable in the broad sense}$ $\tau_1, \tau_2), \qquad \text{then}$ 2) If the process

and

 $E\left\{\eta_{\tau_1\tau_2t}^{(n)}(s)\right\} = D\left(t, \tau_1, \tau_2\right),\,$

$$D^{s}(t,\tau_{1},\tau_{2}) = \frac{1}{m} \sum_{s=1}^{m} \Delta_{\tau_{2}}^{(n)} \xi(s+t) \Delta_{\tau_{3}}^{(n)} \xi(s)$$

is a consistant estimate of D (t, τ_1 , τ_2) when and only when

$$\frac{1}{m} \sum_{s=1}^{m-1} E\left[\Delta_{\tau_{s}}^{(n)}(s+t) \Delta_{\tau_{s}}^{(n)} \xi(s) \Delta_{\tau_{s}}^{(n)} \xi(t) \Delta_{\tau_{s}}^{(n)} \xi(0)\right]_{\mathcal{B} \to \infty} + D^{s}(t, \tau_{s}, \tau_{s}). \tag{1}$$

3) If the representation

$$\Delta_{\tau}^{(n)}\xi\left(t\right)=\int\limits_{0}^{\infty}c\left(p,t\right)d\zeta\left(t-p\right),$$

obtains, where $\zeta(t)$ is a random process with independent stable increments such that $E\{\Delta_{\tau}\zeta(t)\}=0$, $E\{|\Delta_{\tau}\zeta(t)|^2\}=|\tau|$ and the 4th comulant $\Delta_{\tau}\zeta$ (t) is finite and equal to $k_4^0\tau$, then in order for (1) to be fulfilled, it is necessary and sufficient that

$$\frac{1}{m}\sum_{s_0=0}^{m-1}f)^2\left(s_0,\,\tau_1,\,\tau_2\right)\to0.$$

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ALIGUZOV, A. S., Sovrem.	Probl. Kine	cobl. Kibernet., Moscow, Nauka I ed for the limiting expressions D* (t, T ₁ , T ₂), when the condi			of dispersion and			
ALIGUZOV, A. S., Soviem. 4) Formulas are production of the estimation of the estimation are fulfilled, and the	uced for the ite D* (t, τ	$(1, \tau_2), \text{ wh}$	en the	condition	ns (t) i:	abso-		
ovariation of the	1 6	unction 01	tue hr	0000	C			
3) are fulfilled,			c presci	nted for	the cont	inuous		
lutely continuous.	of similar	results 1	5 h. 1000					
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USSR

UDC 614.72-074-78:621.431.73

GALIKEYEV, Kh. L., Semipalatinsk Medical Institute

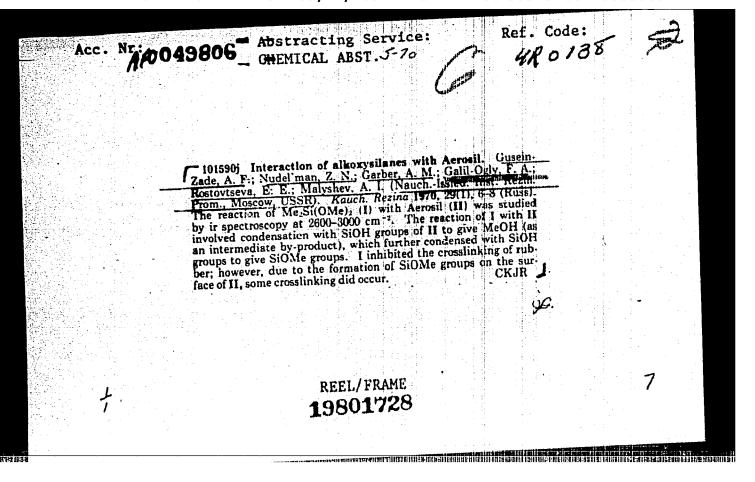
"Use of an Automobile Engine for Sampling of Atmospheric Air by Means of an Aspirator"

Moscow, Gigiyena i Sanitariya, No 10, Oct 1970, pp 55-57

Abstract: An automobile engine with a windshield wiper motor connected with the exhaust chamber can be successfully used to obtain samples of atmospheric air by means of an aspirator, either where the car is parked or by remote control. Whenever the automobile engine is turned on, air is drawn through the device. Atmospheric air samples were collected in both of these modes of operation. Spores of various types of fungi, many of which have allergenic activity, were determined in the sir samples so collected.

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1/2 020 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--POSSIBLE IDENTIFICATION OF INTERACTION IN A POLYMER PLASTICIZER
SYSTEM USING NUCLEAR MAGNETIC RESONANCE -UAUTHOR-(03)-NOVIKOV, N.A., SHASHKOV, A.S., GALILOGLY, F.A.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. B 1970, 12(5), 323-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--PLASTICIZER, SYNTHETIC RUBBER, FLUORINATED DRGANIC COMPOUND, NITRILE RUBBER, STYRENE, NUCLEAR MAGNETIC RESONANCE, CHLOROPRENE/(U)SKF32 FLUORINATED RUBBER, (U)SKN26 NITRILE RUBBER, (U)SKS30 STYRENE RUBBER

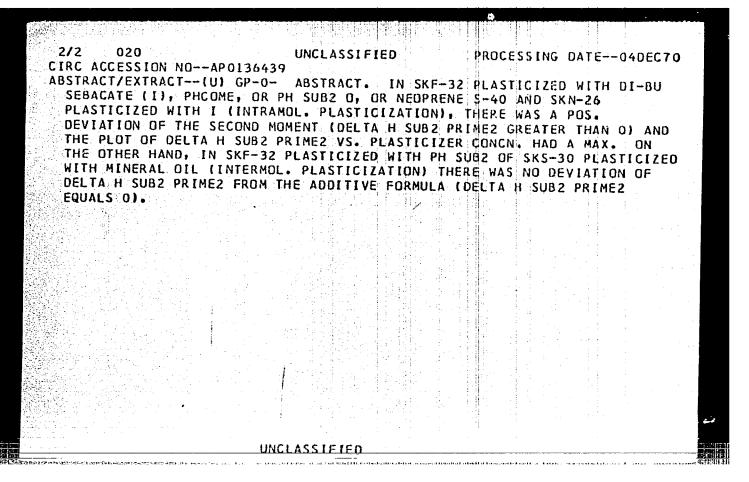
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1012

STEP NO--UR/0460/70/012/005/0323/0324

CIRC ACCESSION NO--APO136439

UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE--160CT70 TITLE--X RAY DIFFRACTION STUDIES OF SECONDARY CRYSTALLIZATION IN A SERIES 1/2 018

OF SILOXANE RUBBERS -U-

AUTHOR-(03)-MOSKALENKO, V.A., TSVANKIN, D.YA., GALILOGLY, F.A.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN. SER. A 1970, 12(3), 548-52

DATE PUBLISHED-----70

SUBJECT AREAS -- MATERIALS

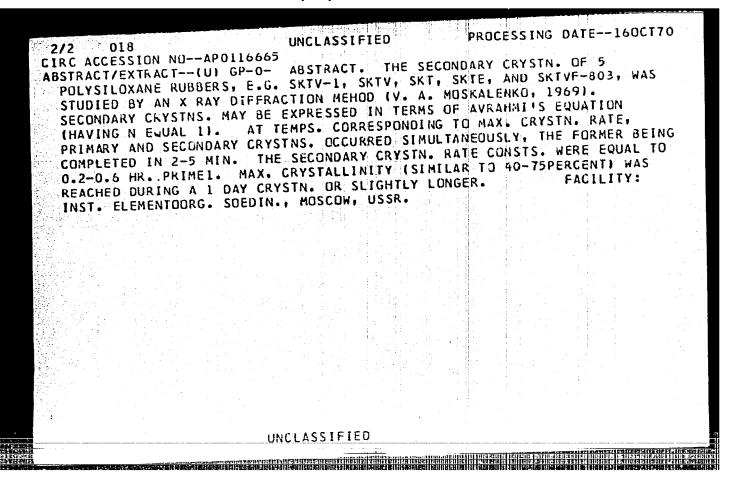
TOPIC TAGS--X RAY DIFFRACTION STUDY, CRYSTALLIZATION, SILOXANE, SYNTHETIC RUBBER/(U) SKTV POLYSILUXANE RUBBER, (U) SKT POLYSKLOXANE RUBBER, (U) SKTE POLYSILOXANE RUBBER, (U)SKTVF 803 POLYSTLOXANE RUBBER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1995/1200

STEP NO--UR/0459/70/012/003/0548/0552

CIRC ACCESSION NO--APOLIA 665 UNCLASSIFIED



UDC 669.295.046.43

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STARXHENKO, V. I., and GALILGKIY, N. V.

"Thermal Analysis of the Titanium Tetrachloride and Silicon Tetrachloride Systems With Hexachlorodisiloxane and Octachlorotrisiloxane"

Sb. tr. Vses. n.-i. i proyektn. in-t titana, [Collected works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, 37-41, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No.1 G178 by the authors).

Translation: A low-temperature thermal analysis installation is used to study the binary fusibility diagrams of the system TiCl₄-Si₂OCl₆; SiC14-Si20C16; TiC14-Si302C18, and SiC14-Si302C18. The Eutectic point in the system TiCl₄·Si₂OCl₆ at - 47.5° and a content of 50.5% (molar) Si₂OCl₆; in the system SiCl₄-Si₂OCl₆ at 9.7% (molar) Si₂OCl₆ (- 77.5°). On the fusibility diagram of the TiCl4-Si302Cl8 system, the eutectic point is located at a content of 59.5% (molar) $\mathrm{Si_{3}0_{2}Cl_{8}}$ and a temperature of

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UDC 669 295.046.43

STARKHENKO. V. I., and GALILGKIY, N. V.

Sb. tr. Vses. n.-i. i proyektn. in-t titana, [Collected works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, 37-41, Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1970, Abstract No. 1G178 by the authors).

- 59.5°. At - 105.5°, a compound is formed in the solid state with molar relationship of the initial components 1:1. In the system $SiCl_4$ - $Si_3O_2Cl_8$, there is a eutectic point at - 83.9° (34.6% (mol) $Si_3O_2Cl_8$), a monotectic at - 63.9°, and a solid compound of $SiCl_4$ - $Si_3O_2Cl_8$ at - 115.0°. 3 figures; 1 table; 7 biblio.refs.

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USSR

WC 539.194

GALIMOV, D. G., YUDIN, D. M., and YAFAYEV, N. R.

"The Problem of Iron Coordination in Glasses"

Minsk, Zhurnal Prikladnoy Spektroskopii, Vol 19, No 2 1973, pp 364-366

Abstract: In glasses containing three-valent iron, lines for g=4.27 are observed along with electron paramagnetic resonance lines with g=2.00. The authors of the present paper offer new data regarding the nature of the center causing the appearance of lines with g factors of 2.00 and 4.27 which they obtained by studying the tendency of the iron ions to the capture of charge carriers in a gamma radiation field. The measurements were made with the RE-1301 radio spectrometer at room temperature. Electron paramagnetic resonance spectra were obtained under identical conditions from various glass specimens identical in weight and shape. A type K-60000 gamma-ray source with a power output of 300 roentgens/sec, and a maximum dosage of 109 roentgens was used for the irradiation. The EPR spectra for the various types of glasses are plotted.

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UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--STRUCTURE AND COLOR OF ALUMOCALCIUM TYPES OF GLASS -U-

AUTHOR-(04)-VEYNBERG, T.I., GALIMOV, D.G., LUNKIN, S.P., YUDIN, D.M.

COUNTRY OF INFO--USSR

SOURCE-LENINGRAD, OPTIKO MEKHANICHESKAYA PROMYSHLENNOST!, NO 1, 1970, PP 42-47

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--IR SPECTROSCOPY, GLASS STRUCTURE, ALUMINUM OXIDE, CALCIUM GLASS, SILICATE GLASS, PHOSPHATE GLASS, CHROMIUM

CONTROL MARKING -- NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1343

STEP NO--UR/0237/76/000/001/0042/0047

CIRC ACCESSION NO--APOL23301

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

PROCESSING DATE-- 13NOV70 UNCLASSIFIED 2/2 029 CIRC ACCESSION NO--AP0123301 ABSTRACT/EXTRACT-- (U) GP-O- ABSTRACT. INFRARED SPECTROSCOPY, OPTICAL, AND PARAMAGNETIC INDICATOR METHODS ARE USED IN STUDYING THE STRUCTURE OF ALUMOCALCIUM TYPES OF GLASS. IT IS SHOWN THAT THE PRESENCE OF TWO TYPES OF STRUCTURAL UNITS CHARACTERIZE THE INVESTIGATED VITREOUS MATRIX: (ALD SUB) AND (ALD SUB6). ON THE BASIS OF RESULTS OBTAINED FROM STUDYING THE ABSORPTION SPECTRA OF ALUMOCALCIUM TYPES OF GLASS COLURED BY IGNS OF RARE EARTH METALS AND VARIABLE VALENCY METALS, IT IS SHOWN THAT THE DEGREE OF COVALENCY OF THE CHEMICAL ACTIVATOR LIGAND BONDS AND FIELD FORCE ARE HIGHER FOR ALUMOCALCIUM TYPES OF GLASS THAN THEY ARE IN CILICATE AND PHOSPHATE GLASS. NEW VALENCE STATES ARE OBTAINED AND STUDIED FOR CHROMIUM (TETRAVALENT AND PENTAVALENT CHROMIUM). UNCLASSIFIED

VDC 543.42:666.1/2

YEVSTROP'YEV, K. S., KRUPKIN, YU. S., GALIMO LA D. T., TARLAKOV, YU. P., SHEVYAKOV, A. M.

"On the Structural Features of R20 - B202 - GeO2 System Glasses from IR and EPR Spectroscopic Data"

Minsk, Zhurnal Prikladnoy Spektroskopii (Journal of Applied Spectroscopy), Vol 13, No 4, Oct 70, pp 655-661

Abstract: A UR-10 spectrograph was used to take ir spectra in the range of 1600 to 400 cm-1. The glass samples, made of chemically pure materials, were heated to 80°C and pressed into potassium bromide. A COOO gamma source of 104r/hr was used to irradiate the samples for the EPR tests. The dose was 2 x 10° roentgens at room temperature. The spectra were recorded with an RE 1301 radiospectrometer at 300°K.

Ir spectra of sodium glass samples with varying content (10, 20, and 30 mole %) of alkali oxide and of lithium and potassium borogermanate glasses were taken. As the Na20 content is increased,

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

YEVSTROP'YEV, K. S., Zhurnal Prikladnoy Spektroskopii, Vol 13, No 4, Oct 70, pp 655-661

the spectral curves become simpler and the principal absorption band of Ge - 0 - Ge at 900 cm-1 progressively shifts in the long wave direction. This behavior holds also for Li20, Na₂0, and K₂0.

Introduction of boric anhydride into the sample greatly alters the nature of the spectra of alkali germanate glasses. The principal absorption band shifts toward the higher frequencies. The band at 1100 cm⁻¹ attributed to BO_{ll} tetrahedra, increases in intensity. The deformation vibration band at 600 to 400 cm⁻¹ decreases gradually and in borate glasses degenerates. The effect of the boric anhydride is the same for sodium, lithium, and potassium glasses.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

YEVSTROP'YEV, K. S., Zhurnal Prikladnoy Spektroskonii, Vol 13, No 4, Oct 70, pp 655-661

The shifting of the absorption bands and changes in intensity with variation in the composition and content of the glasses is related to changes in lattice structures in the samples.

Epr spectra excited by gamma radiation were taken for the same samples, and similar analyses and interpretations are made as for the ir spectra. Variation in the signals and their intensities as a function of the quantity of B203 correlates well with the results of the ir spectra.

It is concluded that there is a range of compositions of alkali borogermanate glasses in which part of the germanium exists in sixfold coordination (in the form of GeO6 octahedra). The range expands as the concentration of the alkali exide increases. For B2O3 is 10, 25, and 30 to 40 mole %. In potassium and lithium glasses the maximum is 30 to 40 mole % of B2O3.

Orig. article has 4 figures, 1 table, and 10 references.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 549.211:549.07:532.528

GALIMOV, E. M., Moscow Institute of the Petrochemical and Gas Industry imeni I. M. Gubkin, Moscow

"Cavitation as a Method of the Synthesis of Natural Diamonds"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, No 1, Jan 73, pp 22-37

Abstract: The central question of the origin of diamonds is ascertainment of the mechanism of their synthesis under natural conditions. This signifies the creation of a model of the process that would correspond with the known data on the thermodynamic conditions of diamond crystallization, and would be in agreement with geological observations. The literature on the subject is surveyed. Analysis of the mineral equilibria shows that in rock accessible to study, the pressures do not exceed 25 kbar, and the temperatures do not exceed 1000-1100°C. This fact cannot be reconciled with the existing hypotheses concerning the P-T conditions of diamond crystallization in the region of their thermodynamic stability. The author proposes caviation as a leading factor in the mechanism of the synthesis of natural diamonds. 49 references.

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CIA-RDP86-00513R002200830002-4"

APPROVED FOR RELEASE: 09/17/2001

લા (સ્થાપના સામારક શાસ્ત્ર) કિલામાં સામાન ફોર્મ સામાર સામે કે તેનો લાગ કરવા છે. કે સામાન સામાન કરવા સામાન કરા ત

USSR UDC 546.26

FEDOSEYEV, D. V., CALIMOV E M. VARNIN, V. P., PROKHOROV, V. S., and DERYAGIN, B. V., Corresponding Member Academy of Sciences USSR, Institute of Physical Chemistry, Academy of Sciences USSR, Moscow, Moscow Gas and Oil Institute

"Fractionation of Carbon Isotopes During the Physical-Chemical Synthesis of Diamond From Gas"

Moscow, Doklady Akademii Nauk SSSR, Vol 201, No 5, 1971, pp 1149-1150

Abstract: In the synthesis of diamond from gas by deposition, a highly dispersed diamond powder was used as the primer. Methane pressure was 0.2 - 0.5 torr at 1000 - 1050°. The isotopic composition of the deposited carbon was studied by mass spectrometry. From the results obtained it was concluded that assumptions on the thermodynamic isotopic effect can be eliminated since the value of the distribution coefficient in the methane-diamond system at 1050°C is negligible. Probably the fractionation of the isotopes of carbon during the synthesis of diamond is determined by a kinetic effect together with a formation process and the growth of a new phase.

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UDC: 539.3

GALIMOV, N. K.

"On Deformation Boundary Conditions in the Nonlinear Theory of Shallow Sandwich Shells"

V sb. <u>Issled.</u> po teorii plastin i obolochek. Vyp. 6-7 (Studies in the Theory of Plates and Shells--collection of works. No 6-7), Kazan', Kazan' University, 1970, pp 130-143 (from <u>RZh-Mekhanika</u>, No 4, Apr 71, Abstract No 4V128)

Translation: Deformation boundary conditions are Jerived in the nonlinear theory of thin filled shallow sandwich shells compressed in the transverse direction in functions of forces and moments. The fundamental relations are found by eliminating unknown tangential displacements and their derivatives from the components of tangential deformations and shear deformations of the filler. The case where all quantities which determine the stressed and deformed state of the shell are reduced to the middle surfaces of the outside layers is considered as well as the case where the equations are formulated for the middle surface of the filler. Specific forms of boundary conditions are analyzed. Bibliography of ten titles. V. Ye. Chepiga.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

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UDC 77

USSR

GOROKHOVSKIY, V. M., LEVIN, YA. A., SOTNIKOVA, I. P., PAKOVA, N. F., KARUNINA, V. V., GALIMOVA, A. M.

"Certain Photographic and Physicochemical Properties of 2- and 5-n-alkyl Homologs of 4-oxo-6-methyl-1,2,4-triazole-(2,3a)-pyrimidine"

Uspekhi nauchn. fotogr. (Advances in Scientific Photography), 1970, Vol. 14, pp 24-29 (from RZh-Fizika, No 12(I), Dec 70, Abstract No 12D1340)

Translation: Photographic and physicochemical properties of 2- and 5-n-alkyl derivatives of sta-salt with substitutes before C7H15 in the second position and before C9H19 in the fifth position. All these substances effectively stopped aging of the emulsion; their stabilizing activity decreased with concentration and there was also observed a greater dilution for a longer alkyl radical. The action of these substances on the emulsion at the time of introduction varied: an increase and a lowering of sensitivity or fogging were encountered, but with an increase in the length of the substitute the predominant effect became desensitization in combination with defogging, a property absent in sta-salt. A

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study of the adsorption of sta-salt homologs on the Hg electrode by the oscillographic polarography method showed that as distinct from sta-salt, which does not have oxidation-reduction peaks and capacity jumps in the region limited by the anode wave of Hg-oxidation and reduction of the background homologs of sta-salt give desorption peaks in this region, the height of which rises with an increase in the length of the substitute and correlates well with their desensitizing effect. This correlation indicates that the deactivization of the sensitivity centers is greater as substances are adsorbed more intensively. A determination of acid dissociation constants of sta-salt homologs and the solubility products of their Ag-salts showed that both quantities drop with an increase in the length of the substitute and the latter must also lead to progressive desensitization. 16 references. Authors abstract.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

1/2 011 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--MECHANISM OF TRANSLATION MISTAKES IN VIVO AND IN VITRO -U-

AUTHOR-(03)-MEDNIKOV, B.M., GALIMOVA, L.M., BELOZERSKIY, A.N.

15-1155-5160

COUNTRY OF INFO--USSR

SOURCE--BIOKHINIYA 1970, 35(2), 216-23

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--AMINO ACID, ANTIBIOTIC, PYRIMIDINE, NUCLEOTIDE, STREPTOMYCIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0197

STEP NO--UR/0218/70/035/002/0215/0223

CIRC ACCESSION NO--APO139060

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

2/2 011 UNCLASSIFIED PROCESSING DATE--040ECTO CTRC ACCESSION NO--AP0139060 ABSTRACT/EXTRACT--{U} GP-O- ABSTRACT: SERICIN PRODUCED BY BOMBYX MORI WORMS FED ON A DIET CONTG. STREPTOMYCIN HAS A SIGNIFICANTLY LOWER PROPORTION OF THE FOLLOWING AMINO ACIDS IN COMPANISON WITH STO. SERICIN: 《VAUINE》[15.3PERCENT] DECREASE; LEUCINE; 113.3; (150LEUCINE, 13/2; THREONINE, 11.6; ARGININE, 8.8; AND SERINE, 4.0; WHILE THE PROPORTION OF THE FOLLOWING IS INCREASED: GLUTAMIC ACID BY 26 PERCENT; LYSINE, 17.6; ALANINE, 14.0; AND ASPARTIC ACID, 3.7. TT IS SUGGESTED THAT THE TRANSLATION MISTAKES INDUCED BY THE ANTIBIOTIC IN VIVO ARE COMPARABLE TO THOSE OBSD. IN CELL FREE SYSTEMS. THE MISTAKES RECORDED IN THE ABOVE EXPTS. CAN BE INTERPRETED AS FOLLOWS: ALL THE 4 BASES CAN BE READ AS A. THE PYRIMIDINES CAN ALSO BE READ AS G: IN ADDN. , U CAN BE READ AS C AND G AS A, WHILE A IS ALWAYS TRANSLATED CORRECTLY. THE MISREADING FREQUENCY OF NUCLEOTIDES U GREATER THAN C GREATER THAN G GREATER THAN A IS CORRELATED TO THEIR THERMODYNAMIC STABILITY. FACILITY: MOSCOW STATE UNIV., MOSCOW, USSR. UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

USSR UDC 517.917

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GALIN, B. K.

"Qualitative Study of One System of Differential Equations"

Uch. zap. Kazan. gos. ped. in-t (Scientific Notes of Kazan State Pedagogical Institute), 1970, No. 83, pp 12-24 (from RZh-Matematika, No 4, Apr 71, Abstract No 4B202)

Translation: A qualitative study of the following system is given:

 $x' = y (y + k_1 x + l_1)(y + k_2 x + l_2),$

 $y' = \beta x + \alpha y + \gamma y^2,$ where

 $k_1 < 0, k_2 > 0, l_1 < 0, l_2 > 0, \gamma > 0$, and α

is a variable parameter. N. Rozov.

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ASRYAN, N. G., and GALIN, L. A.

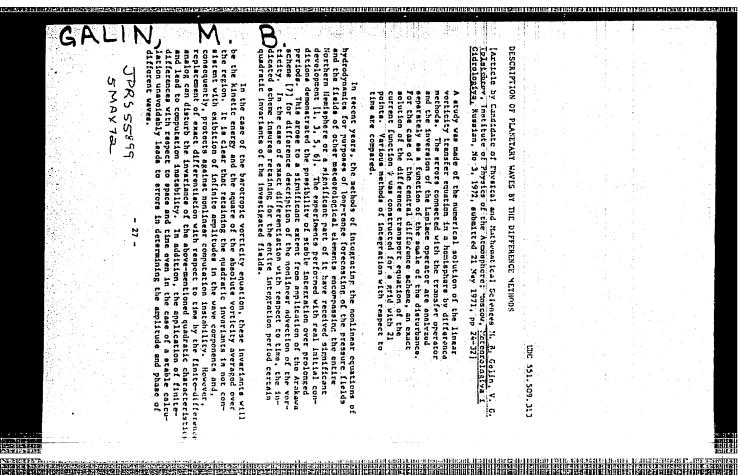
"The Impact of a Cylindrical Shell Against the Surface of a Compressible Fluid"

Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Zhidkosti i Gazov, No 6, Nov-Dec 72, pp 5-10

Abstract: A solution is given for the problem of the impact of a thin cylindrical shell against the surface of a compressible fluid. It is assumed that the shell is quite thin, and that the pressure acting upin it is great, and therefore plastic deformation takes place in the shell. Under these conditions the strength properties of the shell may be disregarded, and only inertial forces need be taken into consideration during establishment of its law of The value of the wave potential is determined, as well as the value of displacement of the shell during the impact time under consideration, and the value of change of the pressure acting upon the shell. This problem is reduced to determination of the potential of displacements $\psi(x, y, t)$ in the region of perturbed motion 12 . This region is separated from an unperturbed region enveloping the Mach comes which originate from points of intersection of the cylindrical shell with the free surface of the fluid. This makes it possible to find the pressure acting upon the shell. 4 figures, 6 references.

CIA-RDP86-00513R002200830002-4"

APPROVED FOR RELEASE: 09/17/2001



USSR

UDC 539,21.536.421

KUZ'MENKO, P. P., GALINA, G. A., and USHANKIN, YU. V., Kiev State University

"Relationship of Young's Modulus to the Degree of Close Ordering in Alloys of the Mg-Cd System"

Kiev, Metallofizika, No 40, 1972, pp 59-61

Abstract: It is shown that within the limits of error of the experimental parameters used, in Mg2d and MgCd alloys of the hexagonal system the change of Young's modulus during disordering is proportional to the degree of close ordering. 2 figures, 6 bibliographic references.

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UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--BERYLLIUM FLUORIDE YTTRIUM FLUORIDE SYSTEM AND A CROSS SECTION OF
THE POTASSIUM FLUORIDE BERYLLIUM FLUORIDE YTTRIUM FLUORIDE SYSIEM WITH
AUTHOR-(03)-BORZENKOVA, M.P., GALINA, V.N., NOVOSEOVA, A.V.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, NEORG. MATER. 1970, 6(1), 25,30

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--BERYLLIUM COMPOUND, FLUORIDE, X RAY ANALYSIS, EUTECTIC, YTTRIUM COMPOUND, POTASSIUM COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0925

STEP NO--UR/0363/70/006/001/0025/0030

CIRC ACCESSION NO--APOLISO93

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

PROCESSING DATE--160CT70 UNCLASSIFIED 025 CIRC ACCESSION NO--APOLISO93 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. BASED ON THE RESULTS OF THE THERMAL AND X RAY PHASE ANALYSES THE CONSTITUTION DIAGRAM OF B SUBE F SUB2 MINUS YE SUB3 SYSTEM WAS CONSTRUCTED. IN PARTICULAR, THE SECTION OF THE TERNARY KF MINUS BEF SUB2 VF SUB3 SYSTEM WITH A CONST. (5 MOLE PERCENT) KF CONTENT WAS STUDIED. THE INTERACTION IN THE BEF SUB2 MINUS VE SUB3 SYSTEM HAS A EUTECTIC CHARACTER. THE BEF SUB2 IS PRESENT IN THE SYSTEM IN THE FORM OF A QUARTZ LIKE PHASE. THE EUTECTIC IS 0850. AT 77.5 MOLE PERCENT BEF SUB2, THE REST SEING VF SUB3, WITH THE M.P. OF THE EUTECTIC BEING 500DEGREES. BY USING DTA METHODS, THE PRESENCE OF REVERSIBLE POLYMORPHIC TRANSFORMATIONS FOR THE FLUURIDES WAS UBSD. (AT 1052DEGREES FOR VF SUB3 AND AT 220DEGREES FOR QUARTZ LIKE BEF SUB2). INVESTIGATION OF MELTS OF THIS SYSTEM, ESP. IN THE BE RICH REGION, IS ASSOCD. WITH MANY EXPTL. DIFFICULTIES DUE TO THE VOLATILITY OF THE BEF SUB2 AT LESS THAN BOODEGREES AND THE VITRIFICATION IN THE SYSTEM, THE TENDENCY TOWARDS WHICH INCREASES WITH INCREASING BEF SUB2 CONTENT. PRIOR TO THE EXPTS., THE ALLUYS WERE ANNEALED AT 400DEGREES, SOMETIMES FOR 2-3 MONTHS. DUE TO THE VITRIFICATION IN THE SYSTEM, IT WAS IMPOSSIBLE TO CONSTRUCT THE PHASE DIAGRAM ON THE BASIS OF THE COOLING CURVES. CRYSTN. OF THE SYSTEM CAN BE INDUCED BY ADDING KF. TO ENSURE EQUIL. IN SUCH A SYSTEM, LONG TERM ANNEALING (200-50 HR) AT 400DEGREES WAS REQUIRED. WHEN 5 MOLE PERCENT KF IS ADDED, THE FIELDS OF PRIMARY CRYSTN. IN THE SYSTEM REMAIN THE SAME. THREE FIELDS OF SECONDARY CRYSTN. ALSO WERE PRESENT. AT 300DEGREES THE TERNARY EUTECTIC BEF SUB2 (QUARTZ LIKE) PLUS BETA- VF SUB3 PLUS KBE SUB2 F SUB5 CRYSTALLIZES.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UNCLASSIFIED

1/2 020 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--EFFECT OF TEMPERATURE ON THE RATE OF LEAD DISCHARGE FROM TRILONATE

ELECTROLYTES IN THE PRESENCE OF VARIOUS ANIONS +U-AUTHOR-(03)-GALINKER, V.S., KUDRA, O.K., NOVIKOVA, L.S.

COUNTRY OF INFO--USSR

SOURCE--UKR. KHIM. ZH. 1970, 36(2),150-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ELECTRODEPOSITION, LEAD, ELECTROLYTE, THERMAL EFFECT

CONTROL MARKING -- NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1935

STEP NO--UR/0073/70/036/002/0150/0154

CIRC ACCESSION NO--APOLI8897

UNGLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

PROCESSING DATE--230CT70 020 UNCLASSIFIED CIRC ACCESSION NO--APOII8897 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE DEVIATION FROM STRAIGHT LINES IN THE CURRENT RECIPROCAL TEMP. GRAPHS (LOG I VS. 1-T) FOR THE RATE OF ELECTRODEPOSITION OF PB PRIME2 POSITIVE FROM PB#TRILON B COMPLEX CONTG. ELECTROLYTES IN THE PRESENCE OF DACTPRIME MINUSTAND HALIDE IONS IS ATTRIBUTED TO THE BALANCE BETWEEN 2 EFFECTS; THE INCREASE IN ELECTRODE REACTION RATE EXPECTED AT HIGHER TEMP. DUE TO INCREASED RATE OF DIFFUSION AND INCREASED NO. OF IONS ABLE TO PENETRATE THE ENERGY BARRIER AND THE CHANGES IN THE NATURE OF THE ELECTRODE SURFACE WITH INCREASED TEMP. (CHANGE IN THE CONCN. OF ADSORBED IONS). FOR SOLNS. CONTG.OAC PRIME MINUS, AT A P.D. OF 350 MV THERE IS A MAX, AT SIMILAR TO 45DEGREES. FOR THOSE CONTG. CI PRIME MINUS THERE IS A MIN. AT 55DEGREES IN THE CURRENT RECIPROCAL TEMP. GRAPHS. THERE IS A BREAK IN THE VISCOSITY RECIPROCAL TEMP. GRAPHS AT SIMILAR TO 55DEGREES, BUT COND. DOES NOT CORRELATE WELL WITH VISCOSITY AT LOW CONCNS. OF PB PRIMEZ 1 FACILITY: KIEV. POLITEKH. INST., KIEV. USSR. POSITIVE.

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Microelectronics

USSR

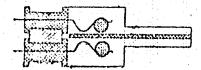
UDC: 621.3.049.75

GALINOVSKIY, A. I., DZYUBAK, E. I.

"A Connector for Printed Circuit Boards"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 6, Feb 71, Author's Certificate No 294270, Division H, filed 15 Apr 68, published 26 Jan 71, p 181

Translation: This Author's Certificate introduces a connector for a printed circuit board. The unit contains an insulated base with two rows of flat contact springs arranged in parallel. As a distinguishing feature of the patent, the operational reliability of the connector is improved by fitting the insulated base with two camshafts which are parallel and interconnected by a common drive mechanism. The contact springs of the connector rest on the cams on these shafts.



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

USSR UDC 539.3

GALIN'SH. A. K., GUR'YANOV, N. G.

"Effect of Local Loads on a Flat Transversally Isotropic Spherical Shell"

Sb. aspirantsk. rabot. Kazan. un-t. Teoriya plastin i obolochek (Collection of Aspirant Works. Kazan' University. Theory of Plates and Shells), 1971, No. 1, pp 158-167 (from RZh-Mekhanika, No 3, Mar 72, Abstract No 3V155)

Translation: Equations taking into account deformations of a transverse shift are used. When the load is applied in the pole, the solution is obtained in terms of Thompson functions and a logarithmic function. The general form of integrals of homogeneous equations are represented in the form of an infinite series in terms of Thompson functions and trigonometric functions. A segment of a spherical shell acted on by a concentrated load applied at an arbitrary point is considered as an example. The particular solution in this case is also represented in the form of an infinite series in terms of Thompson functions and trigonometric functions. G. N. Chernyshev.

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USSR

UDC: 539.3

GALIN'SH, A. K.

"Calculation of Plates and Shells by Refined Theorems"

V sb. <u>Issled.</u> po teorii plastin i obolochek. Vyp. 6-7 (Studies in the Theory of Plates and Shells-collection of works. No 6-7), Kazan', Kazan' University, 1970, pp 23-64 (from RZh-Mekhanika, No 4, Apr 71, Abstract No 4V127)

Translation: For the beginning of the article, see v sb. Issled. no teorii plastin i obolochek, No 5, Kazan', Kazan' University, 1967, pp 66-92, RZh-Mekh, 1968, 6V172. It is noted that refined theories leading to systems of equations of hyperbolic type have come into wide use recently in problems of dynamics in place of the Kirchhoff theory (for plates) and the Kirchhoff-Love theory (for shells), which lead to systems of equations of parabolic type. A survey is given of works on construction of refined theories of the Timoshenko type, which is understood by the author to mean those theories which lead in the case of a plate to a system of fourth order differential equations of hyperbolic type, and which lead in the case of shells to tenth order differential equations of hyperbolic type. Prob-

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

GALIN'SH, A. K., Issled. po teorii plastin i obolochek. Vyp. 6-7, Kazan', Kazan' University, 1970, pp 23-64

lems of selecting the numerical coefficients to be introduced in construction of these theories are set forth. A number of works are noted in which approximate theories of higher order are constructed. Works are mentioned in which the limits of validated and effective applicability of a theory of the Timoshenko type are clarified with the construction of a solution based on the three-dimensional theory of elasticity.

The construction of linear and nonlinear theories for solving problems in statics is considered. A survey is presented on papers dealing with reducing a three-dimensional problem in elasticity theory to a two-dimensional problem in the theory of shells. Energy methods of reduction are analyzed: the unknown functions are approximated in the form of an expansion with respect to some sequence of functions of the normal (to the middle surface) coordinate. The coefficients of this expansion which are functions of the coordinates of the middle surface are found with the application of variational principles or averaging methods. A method of power series is mentioned. A survey is given on works in which the following are proposed: a) asymptotic procedures for constructing the stressed states of a certain form or class; b) methods of resolving the three-dimensional stressed state into qualitatively different components. U. K. Nigul.

2/2

- 133 -

Acc. Nr. MP0045162 CHEMICAL ABST.

91068d Effect of dispersed fillers on the temperature dependence of the specific heat of polystyrene. Intruchenko, V. S.: Dushchenko, V. P.: Solomko, V. P.: Galinskaya, M.-I. (USSR). Plact. Massy 1970; (1), 51-2 (Rus.) - Hicke polystyrene (1) was filled with a finely divided kaolin (diam. ~1-5 i), 2 fractions of powd. quartz (II) (diam. <0.05 mm; 0.1 < diam. <0.04 mm), and its sp. heat (C.) as a function of temp. was detd. thermal cond. at 20-140. The C. of the filled 1 increased with temp. the rate of increase in the glass state region was 7 × 10 · cal/g degree. Increased filler content brought about at decline in, which was most pronounced in I-II compns. (when diam. <0.65 mm), presumably due to the lower heat capacity of the filler and a reaction with the binder.

Ref. Code UR Rol 91

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UDO 621.383.032.217.3

VENEDIKTOV, N.YA., GALINSKIY, N.D., SHEFTEL', M.M.

"Study Of Porous Layers Of MgO As Emitters Based On Streaming For Preliminary Amplification Of Image Intensity"

Elektron.tekhnika. Nauch.-tekhn.sb. Elektronnoluch. i fotoelektr.pribory (Electronic Technology. Scientific-Technical Collection. Electron Beam And Photoelectric Devices), 1971, Issue 2(20), pp 40-47 (from RZh--Elektronika i yeye primeneniye, No 3, March 1972, Abstract No 3All8)

Translation: The results are reported of a study of porous layers of MgO, operating at streaming [prostrel] in models of image intensity amplifiers. The stability of the coefficient of secondary emission and the effect of streaming of the film by fast electrons are studied. A.B.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 681.3:06:51

GALIS, R. M. SOROKIN, A. M.

"Statistical and Dynamic Analysis of Programs"

Mat. Obespecheniye ETSVM. Vyp. 4 [Digital Computer Software, No 4 -- Collection of Works], Kiev, 1970, pp 115-126, (Translated from Referativnyy Zhurnal, Kibernetika, No 6, 1971, Abstract No 6 V589 by A. Doroshenko).

Translation: A program being studied is represented as a matrix I [i, j], where i is the number of lines, characterizing the number of words in the program, j is the number of columns, characterizing the format of each word. Standard algorithms for analysis and evaluation of algorithms written in ALGOL allow the following information to be produced: a) statistical analysis program: number and frequency of operations used in realization of algorithms; number and frequency of accessing of standard programs in interpreting system and standard units in performing unconditional transfer operator with return; b) dynamic analysis program: quantity of initial, intermediate and output data, as well as volume of program memory occupied by data and constants; frequency of utilization of positions in representing order of numbers. The problems arising during dynamic analysis of programs, particularly resulting from incomplete utilization of parameters of the tables during performance of a specific computer process, from the principle of self-changeability of programs, are solved to some extent by performing the process of analysis in three stages and by placing the program being studied and the results in different memory units of the M-220 computer.

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USSR UDC 547.341

GALISHEV, V. A., CHISTIKLETOV, V. N., PETROV, A. A., and TAYM, L. A., Leningrad Technological Institute imeni Lensovet

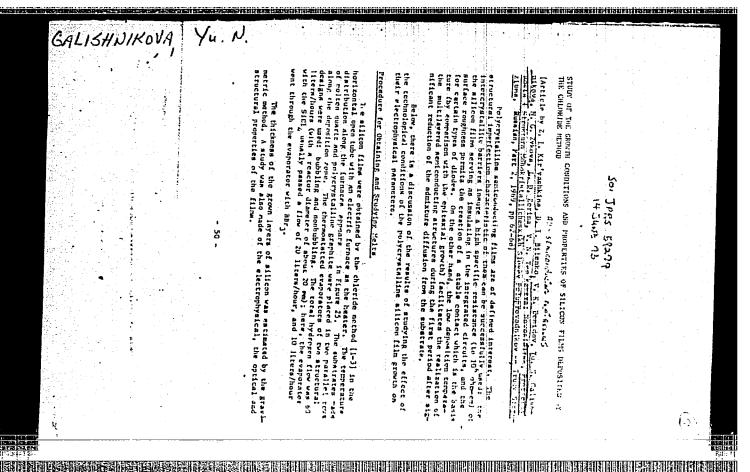
"1,3-Dipolar Addition to Unsaturated Compounds. XXXI. Reactions of Organic Azides With α,β -Unsaturated Compounds of Trivalent Phosphorus"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 7, Jul 73, pp 1470-1472

Abstract: The reactions of organic azides of α,β -unsaturated phosphines were investigated. It was shown that in the cases studied, the double bond is not involved in the reaction so that novel unsaturated phosphine mines are formed.

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UDC 615.616.24-003.656.6

BEZRODNYKH, A. A., KASPAROV, A. A., MAZUROV, V. I., KOCHETKOVA T. A., RAZDVADOVSKIY, YE. F., SIDOROVA, N. V., KULIKOVA, T. P., GALITSINA, I. Z., ZAMARAYEVA, T. V.

"Antifibrosis Effect of Polyvinylpyridine-N-Oxide as a Compound to Prevent the Development of Silicosis"

Nauch. tr. Irkutsk. med. in-t (Scientific Works of the Irkutsk Medical Institute), 1972, vyp 110, pp 52-53 (from RZh-Farmakologiya. Khimioterapevticheskiye Sredstva. Toksikologiya, No 3, Mar 73, Abstract No 3.54.874)

Translation: The polymers polyvinyl-pyridine-2- and 4-N-oxides had an effect on the degree of expression of histologic alterations in the early stages of the development of experimental silicosis (10 days) when administered intratracheally and, especially, hypodermically. These polymers normalized the indexes of the oxidation processes in the lung tissue and the myrocardium. After one, three and six months of the experiment, the polymers with a molecular weight of 40,000 to 80,000 retarded the development of fibrosis, reduced the amount of neutrally soluble collagen and 1/2

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USSR



BEZRODNYKH, A. A., et al., Nauch. tr. Irkutsk. med. in-t, 1972, vyp 110, pp 52-53

normalized the amino acid composition of the lung tissue, the indexes of the oxidation phosphorylation and the activity of the intracellular enzymes. On intratracheal administration of polymers with a molecular weight of 50,000 to 1,500,000, the development of catarrhal bronchitis and bronchiolitis was noted.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 632.951 USSR

SHAPOVALOVA, G. K., and GALITSINA, V. V., All-Union Scientific Research Institute of Chemical Means of Plant Protection

"The Influence of Water-Soluble Coating on the Insecticide Effectiveness of Benzophosphate"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 11, No 2, 1973, p 37

Abstract: A package containing 1 kg of the 30% wetting powder of benzophosphate, in which the soluble coating constituted 3.3% of the weight of the active ingredient or 1% of the total, was dissolved so that in the solution the coating made up only 0.003%. The preparation was then sprayed on the silkworm Porthetria dispar and the house fly Nusca domestica at a rate of 35 ml/m², or 350 l/ha. Mortality was calculated in 24 hours for the flies and in 48 hours for the silkworms. Results indicated that the coating of plastified glycerin was not in itself toxic. It had no effect on the contact toxicity of benzophosphate for houseflies, but somewhat reduced its effectiveness for silkworms.

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CIA-RDP86-00513R002200830002-4"

APPROVED FOR RELEASE: 09/17/2001

USSR

UDC 632.95

SHAPOVALOVA, G. K., SEDYKH, A. S., ABELENSHCHEVA, G. M., GALITSINA, V. V., and MARCHENKO, L. F.

"Insecticidal Action and Effectiveness of Phthalophos"

V sb. Khim sredstva zashchity rast. (Chemical Agents for Plant Protection -- collection of works), vyp 1, Moscow, 1970, pp 8-14 (from RZh-Khimiya, No 11, Jun 72, Abstract No 11N394)

Translation: Phthalophos in concetrations of 0.075-0.1% is an effective substitute for DDT in controlling many pests of orchard, berry, vegetable, commercial and fodder crops. Residues of the insecticide remain toxic for pests for a shorter term than DDT. Phthalophos can be used with rineb and copper oxychloride.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

1/2 023 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--CHROMATOGRAPHIC BEHAVIOR OF PERTECHNATE ION ON RESINS OF VARYING

AUTHOR-(04)-SPITSYN, V.I., OBLOVA, A.A., KUZINA, A.F., GALITSKAYA, N.B.

COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 190(5), 1151-4 (PHYS CHEM)

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CHROMATOGRAPHY, TECHNETIUM COMPOUND, ION EXCHANGE RESIN, CHEMICAL LABELLING, ISOTOPE, PYRIDINE, POLYMER, SOLUTION ALKALINITY, DISTRIBUTION COEFFICIENT/(U)AV17 ION EXCHANGE RESIN, (U)AV22 ION EXCHANGE RESIN, (U)AN25 ION EXCHANGE RESIN, (U)AN25 ION EXCHANGE RESIN, (U)AN23 ION EXCHANGE RESIN, (U)AN41 ION EXCHANGE RESIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RECL/FRAME--1995/1587

STEP NO--UR/0020/70/190/005/1151/1154

CIRC ACCESSION NO--ATO116975

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

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CIRC ACCESSION NO--ATO116995

CIRC ACCESSION NO--ATO116995

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE DISTRIBUTION COEFFS. (KAPPA)

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

PROCESSING DATE-20NOV70 1/2 UNCLASSIFIED TITLE--IMPROVING PUBLIC HEALTH ECONOMICS -U-AUTHOR-(03)-KURIYANOV, M.K., GALITSKAYA, YE.P., SIMDNOV, V.A. COUNTRY OF INFO--USSR SGURCE-GGK'KIY; MOSCOW, SOVETSKOYE ZDRAVOOKHRANENIYE, RUSSIAN, NO 3, 1970, PP 14-17 DATE PUBLISHED----70 SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES, BEHAVIORAL AND SOCIAL SCIENCES TOPIC TAGS-PUBLIC FEALTH, ECONOMIC DEVELOPMENT CONTROL MARKING--NO RESTRICTIONS DECUMENT CLASS--UNCLASSIFIED STEP NO-UR/0753/70/000/003/0014/0017 PROXY REEL/FRAME--3005/G673 CIRC ACCESSION NO--APO132796 UNCLASSIFIED

015 UNCLASSIFIED PROCESSING DATE--20NOV70 2/2 CIRC ACCESSION NU--AP0132796 ABSTRACT. THE ECONOMIC REFORM BEING CARRIED ABSTRACT/EXTRACT--(U) GP-0-OUT IN OUR COUNTRY ALSO AFFECTS THERAPEUTIC AND PREVENTIVE MEDICAL ESTABLISHMENTS TO A CONSIDERABLE EXTENT. IN ACCORDANCE WITH ORDER NO 265 OF THE MINISTER OF HEALTH USSR, DATED 31 MARC# 1967, AN EXPERIMENT IS BEING CONDUCTED IN A NUMBER OF MEDICAL ESTABLISHMENTS INVOLVING EXPANSION OF THE RIGHTS OF THEIR DIRECTORS AND INTRODUCTION OF THE PRINCIPLES OF ECONOMIC INCENTIVES TO STIMULATE THE WORK OF PERSONNEL DIRECTED TOWARD RAISING THE QUALITY AND EFFECTIVENESS OF MEDICAL SERVICE, TUHARD DISCOVERY OF INTERNAL POTENTIAL IN USE OF THE WORK OF MEDICAL PERSONNEL, IN EXPENDITURE OF FINANCIAL AND MATERIAL RESOURCES. AND ALSO CREATION OF A FUND FOR MATERIAL INCENTIVES OF STAFF MEMBERS FOR THE HIGH QUALITY OF THEIR WORK.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

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USSR

UDC 622.24.05:69.034.2.002.72

GALITSKIN, B.M. Engineer. APRISHKO, P.G. Engineer (Baku Branch of the State Institute for the Planning of Petroleum Specialized Constructions)

"Erection of Supports on a Floating Drilling Rig"

Moscow, Montazhnyye i Spetsial'nyye Raboty v Stroitel'stve, No 4, Apr 71, pp 12-14

Abstract: The assembly of the floating drilling rig "Nhazar" in Baku consisting of a 50.5 x 45m pontoon of 7.25m height with four 5.6x5.6 m support columns 94m long, designed from drilling 6000m wells at 60 m sea depth, is described. Each support consists of nine sections 10 to 11.5m long and weighing from 52 to 77 ton each, of lattice construction. Each section is made of sheet steel 40-85mm thick and thick wall pipes. All joints were manually welded by an a.c. are with special care. Sections were assembled by means of a floating 140 ton crane with 80.5m lift.

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USSR

unc 669.295.046.43

GALITSKIY. N. V., DROZHZHEV, V. I., and ZAVADOVSKAYA, V. N.

"Interaction of Metallic Titanium With Chlorine in a Medium of Molten Chlorides"

Sb. tr. Vses. n.-i. i proyektn. in-t titana (Collection of Works of the All-Union Scientific Research and Design Institute of Titanium), 1970, 5, pp 33-36 (from RZH-Metallurgiya, No 11, Nov 70, Abstract No 116150)

Translation: A study is made of the interaction of Cl with metallic Ti sponge and Ti shavings in molten Na, K, Mg chlorides and their mixtures at temperatures of 650-900 and Cl consumption of 0.96-3 l/min. The interaction occurs in two stages. The composition of the melt has the following effect on the process: stages. The presence of MgCl₂ the reaction rate is slower than in pure K and Na

chlorides and the start of the interaction is retarded owing to Ti passivation. The chlorination rate is independent of the grain size of the material and the temperature under the conditions outlined. Dilution of Cl with air changes the nature of interaction; Ti oxides appear in the melt, while free Cl appears in the flue gases. 3 ill.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 669.295.054.79

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GALITSKIY, N. V., BAYBEKOV, M. K., DROZHZHEV, V. I., CHEPRASOV, I. M., MEDVEDCHIKOV, E. P., BARKOVA, N. P., ZAVADOVSKAYA, V. N., SELEDTSOV, D. K., and KORENDYASEV, M. I.

"Reprocessing Waste Titanium and Its Alloys in a Chloride Melt"

Moscow, Metallurgiya i Khimiya Titana (Institut Titana), Metallurgiya Publishing House, Vol 6, 1970, pp 135-140

Translation: Results are given of experimental-industrial research on the reprocessing of ungraded waste mixtures of chips from different titanium alloys by chlorinating in a chloride melt. An experimental batch of marketable titanium sponge was obtained. The characteristics of the raw material used, the chlorine gas, the coke, and the working fusion are given, along with a description of the technological conditions, the chart for preparing chips for chlorination, and the technological equipment charts for the chlorination and cleaning conversions. An analysis is made of the distribution of alloying elements in the products of chlorination. Basic expenditure coefficients, calculated per ton of industrial titanium tetrapenditure coefficients, calculated per ton of industrial titanium tetrachloride, are deduced, and data are given on the quality of the TiCl4 and the sponge titanium obtained. Three illustrations and one table.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 669.295.48

GALITSKIY, N. V., BAYBEKOV, M. K., DROZHZHEV, V. I., CHEPRASOV, I. M., MEDVEDCHIKOV, E. P., BARKOVA, N. N., ZAVADOVSKAYA, V. N., SELEDTSOV, D. K., and KORENDYASEV, M. I.

"Processing of Wastes of Titanium and Its Alloys in Chloride Salt Melt"

Sb. tr. Vses. n.-i. i proyektn. in-t titana [Collected works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, 135-140, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No. 1 G199 by the Authors).

Translation: Results are presented from pilot-scale studies of the processing of unconditioned wastes with a mixture of chips of various Ti alloys by chlorination in a chloride salt melt. An experimental batch of commercial Ti sponge is produced. Characteristics are presented for the raw material, chlorine gas, coke, and working melt used; the technological modes and plans of preparation of the chips and chlorination are presented, along with a technological diagram illustrating the limits of chlorination and purification. Distribution of alloying metals in the chlorination of products is analyzed, the basic consumption factors per ton of technical TiCl₄ are presented, and data are presented on the quality of the TiCl and sponge Ti produced. 3 figures; I table.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 669.295.053.2

GALITSKIY, N. V., KONDRATENKO. A. V., LEBEDEV, G. N., VATAMANYUK, V. I., and PISAREV, L. V., PECHENIK. T. S.

"Pilot Plant Study of Production of Pigment Titanium Dioxide by Burning Titanium Tetrachloride in a Hydrogen Flame"

Sb. tr. Vses. n.-i. i proyektn. in-t titana [Collected works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, 47-54, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No.1 G189 by the authors).

Translation: Results are presented from pilot plant studies of the production of pigment TiO₂ in a reconstructed installation at the Kaluga Chemical-Metallurgical Combine. The possibility is demonstrated of producing TiO₂ by burning TiCl₄ in an air-hydrogen flame on equipment used for production of Aerosil, although the individual units and apparatus require considerable reconstruction. The TiO₂ specimens produced have good whiteness, dispersion, covering power and oil number, but high Cl content, low pH of aqueous extract and rutile content below the requirement of the state standard. 2 figures; 2 tables.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

UDC 669.295.05.054

GALITSKIY, N. V., SAVADOVSKAYA, V. N., and DROZHZHEV, V. I.

"On the Solubility of Pentachloride of Molybdenum in Titanium Tetrachloride"

Moscow, Metallurgiya i Khimiya Titana (Institut Titana), Metallurgiya Publishing House, Vol 6, 1970, pp 34-36

Translation: The solubility of MoCl₅ in TiCl₄ at temperatures of 4, 25, 65 and 100°C is determined by the saturation method. In this temperature interval, it changes from 0.002 to 0.034 of a molecular particle. The heat of solution of MoCl₅ in TiCl₄ is Δ H°_{solu} = 6.82 = 0.2 gigacalories per mole. Four illustrations, one table, and six bibliographic entries.

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<u>был такжа при история вызачивающие и принаменный принаменный принаменный выправания и принаменный принаменный</u>

UDC 669.295.05

USSR

STARSHENKO, V. I., and GALITSKIY, N. V.

"Thermal Analysis of Systems of Titanium Tetrachloride and Silicon Tetrachloride With Hexachlorosiloxane and Octachlorotrisiloxane"

Moscow, Metallurgiya i Khimiya Titana (Institut Titana), Metallurgiya Publishing House, Vol 6, 1970, pp 37-41

Translation: At a low-temperature setting for thermal analysis, the dual fusibility diagrams of the systems TiCl₄-Si₂0Cl₆, SiCl₄-Si₂0Cl₆, TiCl₄-Si₃0₂Cl₈, and SiCl₄-Si₃0₂Cl₈ were studied. The eutectic point in the system TiCl₄ · Si₂0Cl₆ is at -47.5°C with an Si₂0Cl₆ content of 50.5% (molecular); in the system SiCl₄-Si₂0Cl₆ it is at 9.7% Si₂0Cl₆ (molecular) and -77.5°C. In the fusibility curve of the TiCl₄-Si₃0₂Cl₈ system, the eutectic point is located where the Si₃0₂Cl₈ content is 59.5% (molecular) and the temperature is -59.5°C. At -105.5°C, a compound is formed in the solid state with a molecular ratio of 1:1 between the initial components. In the SiCl₄-Si₃0₂Cl₈ system, the eutectic point is at a temperature of -83.9°C with 34.6% (molecular) Si₃0₂Cl₈, the monotectic point at 63.9°C, and a solid compound of the SiCl₄-Si₃0₂Cl₈ type at a temperature of -115.0°C. Three Illustrations, one table, seven bibliographic entries.

USSR

UDC 669.295.046.43

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GALITSKIY, N. V., ZAVADOVSKAYA, V. N.,, and DROZHZHEV, V. L.

"The Solubility of Molybdenum Pentachloride in Titanium Tetrachloride"

Sb. tr. Vses. n.-i. i proyektn. in-t titana, [Collected Works of All-Union Scientific-Research and Planning Institute for Titanium], 6, 1970, 34-36, (Translated from Referativnyy Zhurnal-Metallurglya, No. 1, 1971, Abstract Nol G177 by the authors).

Translation: The saturation method is used to determine the solubility of MoCl₅ in TiCl₄ at temperatures of 4, 25, 65, and 100°. In this temperature interval, the solubility varies from 0.002 to 0.034 mol The heat of dissolution of $MoCl_5$ in $TiCl_4$ ΔH_{sol} = 6.82 ± 0.2 kcal/mol.

4 figures; 1 table; 6 biblio. refs.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

172 020 UNCLASSIFIED TITLE-TITANIUM DIOXIDE PRODUCTION -U-

PROCESSING DATE--27NOV70

AUTHOR-(02)-DMITRIYEV, YU.M., GALITSKIY, N.V.

COUNTRY OF INFO--USSR

SOURCE--U.S.S.R. 264,378
REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI NR 1970
DATE PUBLISHED--O3MAR70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS-METALLURGIC PATENT, TITANIUM OXIDE, TITANIUM CHLORIDE, OXYGEN COMPOUND, METALLURGIC RESEARCH FACILITY, CALCINATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1451

STEP ND--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0126982

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

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UDC: 621.396.6-181.5

AGAKHANYAN, T. M., VASIL'YEV, A. S., GALITSKIY, V. V., DONCHUK, S. D., PETROV, G. V., SMOLKO, G. G.

"Hybrid Circuits Utilizing Thin-Film Distributed RC Structures"

V sb. Mikroelektronika. Vyp. 1 (Microelectronics. No 1--collection of works), Moscow, Atomizdat, 1971, pp 31-62 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V185)

Translation: Results found in development of microelectronic circuits utilizing thin-film distributed RC structures are taken as a basis for analysis of the possibilities of constructing a number of amplifiers, sine-wave generators and relaxation circuits in the form of hybrid microcircuits. A number of recommendations are given on making microcircuits. Thirty-seven illustrations, bibliography of thirty-six titles. N. S.

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tion 547 (24-1-34)

NOVIKOVA, Z. S., GALTTSvovi II. P. and INTSVOVO, I. F.: Foccow State University imeni M. V. Lomonosov

"Isomerization of Alkenyl Esters of Phosphinous Acid and 12 - Autophosphines

Moscow, Doklady Akademii Mach SSSR, Vol 203, No 3, 1972, pp 595-599

Abstract: This study follows emplies work by the authors on CC-metallized (Hg, Sn) carbonyl corpousds, in which they devised methods for synthecizing substituted vinyl esters of phosphineus acid and also the ishmeric A -bette-phosphines. The present study concerns a new regrounding of the eligible receives of diphenylphosphinous acid into A -bette-lkyldiphenylphosphines. The isomeric compounds isopropenyl (I) and A -ctaylvinyl (II) estern of diphenylphosphinus acid, along with their isomers diphenylacetonylphosphine (III) and 2-oxebutyl-diphenylphosphine (IV) were investigated. Neither heating for distillation of these effected any mutual transformations. However, the object-abstituted vinyl estern of phosphinous acid, in the presence of various reslectific stanneorgenic compounds, and also the calts of certain metals, were converted into isomeric A-ketophosphines. Reservon times mugad from a form to by lays for the eight esters tested. Data obtained are supported in tabular form.

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UDC 547.241.341

USSR

NOVIKOVA, Z. S., GALITSKOVA, N. P., KOZLOV, V. A., and LUTSENKO, I. F., Moscow State University imeni M. V. Lomonosov

"Reaction of Diphenylphosphine and Potassium Diphenylphosphide With $\alpha\textsc{-Mercurylated}$ Aldehydes and Ketones"

Leningrad, Zhurnal Obshchey Khimii, Vol 41 (103), No 4, Apr 71, pp 831-838

Abstract: Reaction of diphenylphosphine with mercuribisacetaldehyde and the reaction of potassium diphenylphosphide with chloromercuryacetaldehyde in a solution of dimethoxyethane takes place with a transfer of the reactive center yielding vinyl ester of diphenylphosphinous acid. In contrast, amercurylated ketones react with these reagents in two ways, yielding a, substituted vinyl esters of the diphenylphosphinous acid (0-phosphorylation) and a-phosphorylated ketones (C-phosphorylation). The course of the reaction depends on the electron density at the phosphorus atom, on the structure of organomercury compound and on the type of solvent used. The reaction course involving the transfer of the reactive center with the formation of 0-isomers involving the phosphorus atom, higher basicity, in favored by higher electron density on the phosphorus atom, higher basicity, and coordination ability of the solvent. The opposite factors favor the reaction without a transfer of the reactive center to the 1,2-position, leading to the formation of C-isomers.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

Differential & Integral Equations

USSR

GALIULLIN, A. S. (Lumumba Peoples' Friendship University)

"Problem of the Structure of Systems of Differential Equations"

Minsk, Differentsial'nyve Uravneniya; August 1970, np 1343-1343

Abstract: The following problem is stated and solved: For known, particular integrals find the set of systems of ordinary differential equations and establish the structure of the functional taking on a stationary value in the solutions of the equations in question. Determine the conditions for the stability of the given integral manifold. Particular integrals in a class of bounded, continuous, and differentiable functions in some region of phase space are suggested. The functions which determine the system of differential equations, as well as the integrand (functional), are included in this same region.

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USSR

GALIULLIN, A. S., Differentsial nyve Uravneniya, August 1970, pp 1343-1348

As an example, the author obtains the solution of a problem on the control of the movement of a heavy body of variable mass (concentrated at a point).

The article includes 24 equations. There are 11 references.

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UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--CONCERNING CONSTRUCTION OF SYSTEMS OF PROGRAMME MOVEMENT -U-

AUTHOR--GALIULLIN, A.S.

COUNTRY OF INFO--USSR

SOURCE--AVTOMATIKA I TELEMEKHANIKA, 1970, NR 3, PP 32-37

DATE PUBLISHED----70

SUBJECT AREAS -- MATHEMATICAL SCIENCES, PHYSICS

TOPIC TAGS--DYNAMIC SYSTEM, MOTION STABILITY, FUNCTIONAL EQUATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1483

STEP NU--UR/0103/70/000/003/0032/0037

CIRC ACCESSION NO--APO106239

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200830002-4"

2/2 016 UNCLASSIFIED PROCESSING DATE--230CT70
CIRC ACCESSION NG--AP0106239
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THERE IS CONSIDERED THE
DEVELOPMENT OF THE PROBLEM OF CONSTRUCTING THE EQUATIONS OF THE MATERIAL
SYSTEM MOVEMENT ON THE BASIS OF THE SET PROBLEM (1-6). THERE ARE
CONSTRUCTED THE FUNCTIONALS ASSUMING THE STATIONARY VALUES ON THE
SOLUTIONS OF THE EQUATIONS CONSTURCTED, THERE ARE DETERMINED THE
CONDITIONS OF THE STABILITY OF THE PROGRAMME MOVEMENT. THE SOLUTION OF
ONE OF THE PROBLEMS OF CONTROLLING THE MOVEMENT OF A HEAVY POINT OF A
VARIABLE MASS IS PRESENTED AS AN EXAMPLE.

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511.444.2+548.1

DELONE, B. N., Corresponding Member of the Academy of Sciences of the USSR, GALIULIN, R. V., DOLBILIN, N. P., ZALGALLER, V. A., SHTOGRIN, M. I., Mathematics Institute imeni V. A. Steklov, Academy of Sciences of the USSR, Moscow

"On the Three Successive Minima of a Three-Dimensional Lattice"

Moscow, Doklady Akademii Nauk SSSR, Vol 209, No 1, Mar/Apr 73, pp 25-28

Abstract: Let OA be the shortest vector of the three-dimensional lattice Λ , OB -- the shortest vector of A not parallel to OA, and OC -- the shortest vector of A not parallel to plane OAB. Three such vectors are called the three successive minima of A, and the parallelepiped I constructed on these vectors is called a reduced parallelepiped.

Theorem 1. The reduced parallelepiped II is primitive (empty). This theorem was first geometrically proved by Dirichlet in 1848. This proof has always seemed somewhat complicated to crystallographers, and therefore N. V. Belov proposed a new proof in 1951. In this paper, the authors offer a still simpler proof, and propose an algorithm for reducing three successive minima to a single parallelepiped.

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UDC: 533.697

BUZINOV, S. N., GALIULLIN. Z. T., and KARPOVA N. A.

"Nonlinear Problems in Non-Steady State Movement of Liquids and Gases Through Tubes"

Tr. Vses. n.-i. in-t prirodn. gazov (Works of the All-Union Scientific Research Institute of Natural Gases) 1970, No. 38/46, pp 149-162 (from RZh-Mekhanika, No. 8, Aug 70, Abstract No. 8B514)

Translation: Solutions of a system of nonlinear differential equations in partial derivatives are considered for the non-steady state movement of fluids in the use of the Leybenzon function in cases where the pressure or outflow in the initial section of the semi-infinite tube varies according to a power law. Some amount of fluid is introduced; this is a problem in "instantaneous source" for the boundary conditions. There is a jump in the outflow, or the outflow varies according to a sine law. The solution is considered for the case in which the daily sinusoidal curve of gas consumption is given, and the power of the last compressor station varies such that all other compressor stations operate in the steady state mode. The effect of the diameter and length of the final section of the tube on variations in the pressure and outflow is investigated. Bibliography of eight. Author's abstract.